

ABSTRACT

Machines and methods for curing ultraviolet (UV) curable floor coatings are provided. In one embodiment, the machine includes a UV radiation source having one or more lamps where each lamp is operable to simultaneously emit UV radiation at two or more wavelengths and at relatively low power consumption, e.g., no more than about 75 watts per inch of cured coating width. The floor coating includes components that are reactive to these two or more wavelengths such that substantial or complete curing of the floor coating may occur upon simultaneous exposure to the two or more wavelengths. Preferably, the UV radiation emitted by each of the one or more lamps is greater at the two or more wavelengths than at wavelengths other than the two or more wavelengths.

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